

- Non-negative rational numbers can be represented using a variety of models to demonstrate equivalence.
 - How would you shade this grid to show these two fractions are equivalent?
- Non-negative rational numbers are ordered according to their value and placed on the number line relative to their position between whole numbers.
 - What two consecutive whole number values is this rational number between?



Vocabulary of Instruction:

- ascending
- decimals
- rational numbers
- percents
- improper fractions
- mixed numbers
- descending
- non-negative
- fractions
- equivalence
- whole numbers

Materials:

- math journals (see Spiral Review under Resources)
- rulers
- glue sticks
- base ten models (optional)
- scotch tape
- blank paper (3 sheets per student)
- scientific calculator (optional)
- map pencils
- sticky notes (1 per student)

Resources:

-  **SPIRALING REVIEW**
The intent of the spiral review is to provide a quick review and informal assessment of previously taught and currently taught concepts. The writing team considered the performance indicators, key understandings, TEKS from previously taught concepts, and the Texas Response to Curriculum Focal Points. Each week, the reviews will spiral these concepts through problem solving, error analysis, number sense, writing in mathematics and/or integration of mathematical tools. Students will complete the question, record all entries in their math journals, and briefly discuss their results all within a 5 to 6 minute time frame at the beginning of each day indicated by the spiraling review icon above. All spiraling reviews will be found as a separate attachment in the developer with the first unit of each six weeks.
-  **STATE RESOURCES**
 - **MTC 6 – 8: Peanut Butter Fudge**
<http://www.tea.state.tx.us/math/training/materials/MTC/index.htm>
 - **MSTAR Math Academy: Day 3 – Representing Fractions**
 - http://nlvm.usu.edu/en/nav/frames_asid_105_g_3_t_1.html

Advance Preparation:

1. Transparency: **Pizza Challenge** (1 per teacher)
2. Handout: **Pizza Challenge Models** (1 per student)
3. Transparency: **Pizza Challenge Models** (1 per teacher)
4. Handout: **Fraction Circle Models** (optional) (copy on cardstock, cut out, 1 set per student)
5. Handout: **Fraction Strips Cut** (1 per student) (copy on white paper and cut strips out ahead of time – 5 strips per student on Day 2 and 1 copy for every 5 students – 1 strip per student on Day 11)
6. Handout: **Fraction Strip Ruler** (1 per student copied on cardstock – do not cut out these strips)
7. Transparency: **Fraction Strip Ruler** (1 per teacher)
8. Card Set: **Fraction Cards** (copy on cardstock, cut apart – 1 card per student)
9. Handout: **Equivalent Fraction Folding Activity** (1 for every 2 students)
10. Handout: **Square Pizza Models** (1 per student)
11. Transparency: **Square Pizza Models** (1 per teacher)
12. Handout: **Subdividing Fractional Parts** (1 per student)
13. Handout: **Happy Birthday to Me!** (1 per student)
14. Handout: **“Express” Fractions and Decimals** (1 per student)